

HEAT RECOVERY IN AN OLEFIN PRODUCTION PROCESSABSTRACT

5

Disclosed is a process for recovering heat in an oxygenate to olefin ("OTO") production process. The process includes removing heat while maintaining the temperature of an effluent stream that comprises solid particles (typically catalyst particles) and a gas phase comprising prime olefins from an OTO reactor above the dew point temperature of the effluent stream. The process further includes washing the effluent stream in solids wash to remove the solid particles from the gas phase into a liquid wash medium.

10